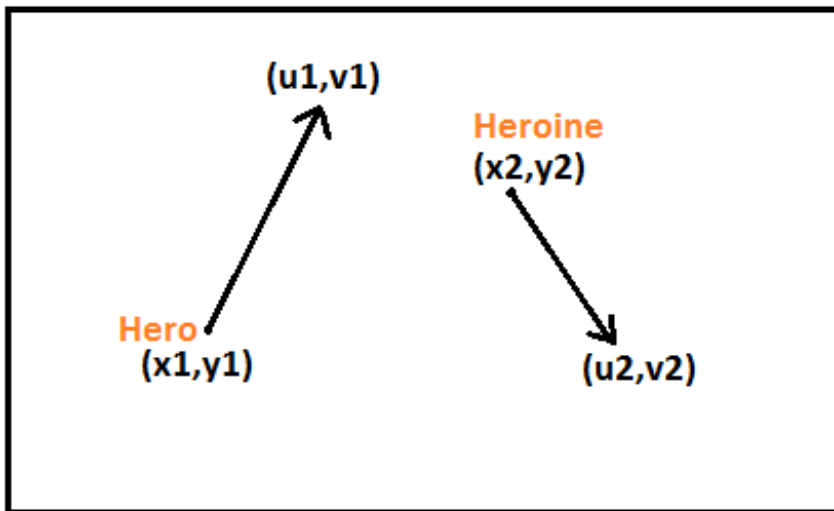


# Face the mate



Hero and Heroine are standing on a 2D plane. Hero is standing at  $(x_1, y_1)$  facing towards  $(u_1, v_1)$  and the heroine is standing at  $(x_2, y_2)$  facing towards  $(u_2, v_2)$ , both trying to find the location of the other one. Both of them are lazy and they don't move. Instead, they just change the direction they face, standing at the same position. To make things easier, both of them starts scanning simultaneously with same rotation speed. To make things even more easier, assume that they choose the direction which will help to find their mate as fast as possible. Print "Hero" if the Hero finds Heroine faster; print "Heroine" if the Heroine finds Hero faster. Print "0" otherwise.

Assume that both of them don't have any [field of view](#) and all they can see are the points in the straight line that they face.

## Input:

The first line consists of an integer  $t$ , the number of test cases. For each test case, the first line consists of 8 non-negative integers  $x_1, y_1, u_1, v_1, x_2, y_2, u_2$  and  $v_2$ .

## Output:

For each test case, print the result in the required format as specified in the problem statement.

## Input Constraints:

$$1 \leq t \leq 500000$$

$$0 \leq x_i, y_i, u_i, v_i \leq 100$$

$(x_1, y_1) \neq (x_2, y_2)$  Both players are located at different positions.

$$(x_1, y_1) \neq (u_1, v_1)$$

$(x_2, y_2) \neq (u_2, v_2)$  Players don't face their own locations.

## Sample Input:

10  
93604466  
18634978  
82359198  
40367615  
42730972  
60571654  
12140060  
71777733  
59189826  
60013825

**Sample Output:**

0  
Hero  
Heroine  
Hero  
Heroine  
Heroine  
Heroine  
Heroine  
Hero  
Heroine  
Heroine